

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	microchannel and freez\$3 and (heat adj exchange\$2)	EPO; JPO; DERWENT	OR	ON	2006/07/21 11:50
L2	95	microchannel and freez\$3 and (heat adj exchange\$2)	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/21 11:54
L3	8	2 and (compressible adj (material or object))	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/21 11:50
S1	50	("3654988" or "3817321" or "3823572" or "3923426" or "4109707" or "4138996" or "4312012" or "4450472" or "4485429" or "4540115" or "4516632" or "4561040" or "4567505" or "4573067" or "4758926" or "4866570" or "4868712" or "4894709" or "4896719" or "4908112" or "4938280" or "5009760" or "5016138" or "5057908" or "5070040" or "5083194" or "5088005" or "5096388" or "5099311" or "5099910" or "5125451" or "5131233" or "5203401" or "5218515" or "5219278" or "5232047" or "5239200" or "5263251" or "5274920" or "5308429" or "5309319" or "5317805" or "5325265" or "5336062" or "5380956" or "5383340" or "5421943" or "5427174" or "5436793" or "5459099").pn.	US-PGPUB; USPAT	OR	ON	2004/07/14 12:59
S2	4	("4980848"   "4997032"   "5000256"   "5030793").PN.	USPAT	OR	ON	2004/07/14 13:31
S3	52	"5383340".URPN.	USPAT	OR	ON	2004/07/14 13:33
S4	12	("5313362"   "5383340"   "5588483"   "5621613"   "5646882"   "5781409"   "6031716"   "6134106"   "6141216"   "6148906"   "6189602"   "6226178").PN.	USPAT	OR	ON	2004/07/14 15:27
S5	18	("4593753"   "5172754"   "5313362"   "5383340"   "5588483"   "5621613"   "5646822"   "5781409"   "5796581"   "5847925"   "5910883"   "5975195"   "6026888"   "6069791"   "6078499"   "6105662"   "6118654"   "6125035").PN.	USPAT	OR	ON	2004/07/14 13:37
S6	48	("4194559"   "4196504"   "4248295"   "4274479"   "4345642"   "4408661"   "4547130"   "4565243"   "4603731"   "4683940"   "4696010"   "4697205"   "4729061"   "4789026"   "4799537"   "4807697"   "4815528"   "4854379"   "4879632"   "4880052"   "4917177"   "4941527"   "5002122"   "5060114"   "5076352"   "5115225"   "5142442"   "5159529"   "5168919"   "5181167"   "5185691"   "5190099"   "5199487"   "5199888"   "5258888"   "5285108"   "5311448"   "5329996"   "5390734"   "5397176"   "5491611"   "5495978"   "5511306"   "5549155"   "5566752"   "5621613"   "5709960"   "5737187").PN.	USPAT	OR	ON	2004/07/14 13:42
S7	3	("4561040"   "4688147"   "4740866").PN.	USPAT	OR	ON	2004/07/14 13:44
S8	31	"4879632".URPN.	USPAT	OR	ON	2004/07/14 13:45
S9	1	("20010022720").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/07/14 14:08
S10	3731	((62/430,259.2) or (165/104.33,85) or (361/687,688,689)). CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/07/14 15:28
S11	75	S10 and (compressible or expansible)	US-PGPUB; USPAT	OR	ON	2005/12/07 09:20
S12	7	("4810168"   "5203399"   "5646824"   "5757615"   "6519148"   "6549408"   "6556439").PN.	USPAT	OR	ON	2004/07/14 15:38
S13	28	"4493010".URPN.	USPAT	OR	ON	2004/07/14 15:59
S14	1	"4357809".PN.	USPAT	OR	OFF	2004/07/14 16:02
S15	18	"3596713".URPN.	USPAT	OR	ON	2004/07/14 16:06
S16	30	cooling and ((compressible or expansible) with (tube or pipe or conduit))	EPO; JPO	OR	ON	2004/07/14 16:27

## EAST Search History

S17	522	cooling and (compressible with (tube or pipe or conduit))	USPAT	OR	ON	2004/07/14 16:18
S18	266	S17 and volume	USPAT	OR	ON	2004/07/14 16:21
S19	424	S17 not (compressible adj (gas or fluid))	USPAT	OR	ON	2004/07/14 16:19
S20	417	S19 not (compressible adj liquid)	USPAT	OR	ON	2004/07/14 16:19
S21	96	S20 and (compressible near2 material)	USPAT	OR	ON	2004/07/14 16:26
S22	125	S17 and (heat adj exchanger)	USPAT	OR	ON	2004/07/14 16:21
S23	23	S22 and (compressible near2 material)	USPAT	OR	ON	2004/07/14 16:22
S24	2	S21 and "62"/\$.ccls.	USPAT	OR	ON	2004/07/14 16:26
S25	20	((compressible adj material) with (tube or pipe or conduit))	EPO; JPO	OR	ON	2004/07/14 16:37
S26	4	((("2129680") or ("3677303") or ("3077058") or ("3574357"))).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/07/14 16:36
S27	362	((compressible adj material) with (tube or pipe or conduit))	USPAT	OR	ON	2004/07/14 16:37
S28	74	((compressible adj material) near2 (tube or pipe or conduit))	USPAT	OR	ON	2004/07/14 16:47
S29	1	("20020075645").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/07/14 16:47
S30	1	("20040148959").PN.	US-PGPUB; USPAT	OR	OFF	2005/03/29 16:39
S31	20	("20020114140" "20030147214" "4313310" "4434625" "4846861" "5365749" "5412952" "5442923" "5653909" "5693991" "5715693" "5884692" "5927088" "5963425" "5993178" "6034872" "6035655" "6115251" "6148635" "6591621").PN.	US-PGPUB; USPAT	OR	ON	2005/01/27 11:04
S32	27	("6536516" "6601643" "0213580" "6609560" "6257320" "6533029" "4903761" "5016090" "5310440" "6330907" "6366462" "6466442" "6519151" "4467861" "5269372" "5275237" "5346000" "5388635" "5945217" "6019165" "6034872" "6039114" "6253832" "6336497" "6367544" "6431260" "6651735").PN.	US-PGPUB; USPAT	OR	ON	2005/01/27 11:04
S33	7	("5161089" "5993750" "5228502" "5239443" "5265670" "3948316" "6729383").PN.	US-PGPUB; USPAT	OR	ON	2005/01/27 11:23
S34	2	("6632719" "20040120827").PN.	US-PGPUB; USPAT	OR	ON	2005/01/27 11:26
S35	5	("3267859" "3554669" "6012902" "6770183" "20030022505").PN.	US-PGPUB; USPAT	OR	ON	2005/01/27 11:27
S36	3	("5179500" "5839290" "20020096312").PN.	US-PGPUB; USPAT	OR	ON	2005/01/27 11:27
S37	4698	((62/430,259.2) or (165/104.33,85) or (361/687,688,689)).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/27 11:28
S38	4	S37 and @PD>"20040701" and (compressible or expansible)	US-PGPUB; USPAT	OR	ON	2005/12/12 17:06

## EAST Search History

S39	226	("0016985" "0024820" "0044155" "0045270" "0046703" "0055714" "20020075645" "20020096312" "0011330" "0121105" "0134543" "20030022505" "0121274" "0213580" "20040120827" "0040695" "0052049" "0089008" "0125561" "0160741" "0188069" "2039593" "3267859" "3554669" "3654988" "3817321" "3823572" "3923426" "3948316" "4109707" "4138996" "4312012" "4450472" "4467861" "4485429" "4516632" "4540115" "4561040" "4567505" "4573067" "4574876" "4758926" "4866570" "4868712" "4894709" "4896719" "4903761" "4908112" "4938280" "5179500" "5839290" "5009760" "5016090" "5016138" "5043797" "5057908" "5070040" "5083194" "5088005" "5096388" "5099311" "5099910" "5125451" "5131233" "5161089" "5203401" "5218515" "5219278" "5228502" "5232047" "5239200" "5239443" "5263251" "5265670" "5269372" "5274920" "5275237" "5308429" "5309319" "5310440" "5317805" "5325265" "5336062" "5346000" "5371529" "5380956" "5383340" "5388635" "5421943" "5427174" "5436793" "5441613" "5459099" "5490117" "5508234" "5514832" "5514906" "5534471" "5544696" "5548605" "5575929" "5585069" "5632876" "5641400" "5692558" "5696405" "5703536" "5704416" "5727618" "5740013" "5759014" "5763951" "5768104" "5774779" "5800690" "5801442" "5835345" "5836750" "5858188" "5863708" "5870823" "5874795" "5876655" "5880524" "5901037" "5921087" "5936192" "5940270" "5942093" "5945217" "5964092" "5965001" "5965813" "5978220" "5989402" "5993750" "5997713" "5998240" "6012902" "6253836" "6632719" "6770183" "6007309" "6010316" "6013164" "6019165" "6019882" "6034872" "6039114" "6054034" "6068752" "6090251" "6096656" "6100541" "6101715" "6126723" "6129145" "6129260" "6131650" "6146103" "6154363" "6159353" "6171067" "6174675" "6176962" "6186660" "6206022" "6210986" "6216343" "6221226" "6227809" "6234240" "6238538" "6253832" "6253835" "6257320" "6277257" "6287440" "6301109" "6313992" "6317326" "6321791" "6322753" "6324058" "6330907" "6336497" "6337794" "6351384" "6366462" "6366467" "6367544" "6388317" "6396706" "6400012" "6406605" "6415860" "6416642" "6417060" "6424531" "6431260" "6437981" "6438984" "6443222" "6444461" "6457515" "6459581" "6466442" "6495015" "6519151" "6533029" "6536516" "6537437" "6543521" "6553253" "6572749" "6581388" "6587343" "6588498" "6591625" "6600220" "6601643" "6609560" "6632655" "6651735" "6729383" "6743664").PN.	US-PGPUB; USPAT	OR	ON	2005/03/29 16:41
S40	17	("5043797" "5921087" "6600220" "5490117" "5740013" "5768104" "6459581" "6743664" "0040695" "0052049" "0089008" "0188069" "0121105" "0121274" "6366467" "0125561" "0160741").PN.	US-PGPUB; USPAT	OR	ON	2005/03/29 16:41
S41	25	("5043797" "5921087" "6600220" "5490117" "5740013" "5768104" "6459581" "6743664" "0040695" "0052049" "0089008" "0188069" "0121105" "0121274" "6366467" "0125561" "0160741").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/29 16:41
S42	7	("5642262"   "5661336"   "5696032"   "5889320"   "5998859"   "6043557"   "6365962").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/30 15:23

## EAST Search History

S43	246	("0016985" "0024820" "0044155" "0045270" "0046703" "0055714" "20020075645" "20020096312" "0011330" "0121105" "0134543" "20030022505" "0121274" "0213580" "20040120827" "0040695" "0052049" "0089008" "0125561" "0160741" "0188069" "2039593" "3267859" "3554669" "3654988" "3817321" "3823572" "3923426" "3948316" "4109707" "4138996" "4312012" "4450472" "4467861" "4485429" "4516632" "4540115" "4561040" "4567505" "4573067" "4574876" "4758926" "4866570" "4868712" "4894709" "4896719" "4903761" "4908112" "4938280" "5179500" "5839290" "5009760" "5016090" "5016138" "5043797" "5057908" "5070040" "5083194" "5088005" "5096388" "5099311" "5099910" "5125451" "5131233" "5161089" "5203401" "5218515" "5219278" "5228502" "5232047" "5239200" "5239443" "5263251" "5265670" "5269372" "5274920" "5275237" "5308429" "5309319" "5310440" "5317805" "5325265" "5336062" "5346000" "5371529" "5380956" "5383340" "5388635" "5421943" "5427174" "5436793" "5441613" "5459099" "5490117" "5508234" "5514832" "5514906" "5534471" "5544696" "5548605" "5575929" "5585069" "5632876" "5641400" "5692558" "5696405" "5703536" "5704416" "5727618" "5740013" "5759014" "5763951" "5768104" "5774779" "5800690" "5801442" "5835345" "5836750" "5858188" "5863708" "5870823" "5874795" "5876655" "5880524" "5901037" "5921087" "5936192" "5940270" "5942093" "5945217" "5964092" "5965001" "5965813" "5978220" "5989402" "5993750" "5997713" "5998240" "6012902" "6253836" "6632719" "6770183" "6007309" "6010316" "6013164" "6019165" "6019882" "6034872" "6039114" "6054034" "6068752" "6090251" "6096656" "6100541" "6101715" "6126723" "6129145" "6129260" "6131650" "6146103" "6154363" "6159353" "6171067" "6174675" "6176962" "6186660" "6206022" "6210986" "6216343" "6221226" "6227809" "6234240" "6238538" "6253832" "6253835" "6257320" "6277257" "6287440" "6301109" "6313992" "6317326" "6321791" "6322753" "6324058" "6330907" "6336497" "6337794" "6351384" "6366462" "6366467" "6367544" "6388317" "6396706" "6400012" "6406605" "6415860" "6416642" "6417060" "6424531" "6431260" "6437981" "6438984" "6443222" "6444461" "6457515" "6459581" "6466442" "6495015" "6519151" "6533029" "6536516" "6537437" "6543521" "6553253" "6572749" "6581388" "6587343" "6588498" "6591625" "6600220" "6601643" "6609560" "6632655" "6651735" "6729383" "6743664").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/30 15:36
S44	1	("5785116").PN.	US-PGPUB; USPAT	OR	OFF	2005/03/30 15:36
S45	93	((electronic with cooling) and channel).ab.	US-PGPUB; USPAT	OR	ON	2005/03/30 16:09
S46	57	((electronic with cooling) and channel)	JPO	OR	ON	2005/03/30 16:09
S47	1	("5763951").PN.	US-PGPUB; USPAT	OR	OFF	2005/03/30 16:31
S48	2	("1863434").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/04/27 09:13
S49	2	("1863437").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/04/27 09:13
S50	1	JP-01256775-\$.did.	JPO; DERWENT	OR	ON	2005/12/07 09:17
S51	5168	((62/430,259.2) or (165/104.33,85) or (361/687,688,689)).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/12/07 09:20
S52	1	S51 and (compressible or expansible) and (freez\$3 with (first or later))	US-PGPUB; USPAT	OR	ON	2005/12/07 09:21
S53	0	(compressible or expansible) and (freez\$3 with (first or later))	EPO; JPO	OR	ON	2005/12/07 09:21

## EAST Search History

S54	3	(compressible or expansible) and (freez\$3 with (first or later))	DERWENT	OR	ON	2005/12/07 09:21
S55	5170	((62/430,259.2) or (165/104.33,85) or (361/687,688,689)). CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/12/12 17:06
S56	8	S55 and @PD>"20041001" and (compressible or expansible)	US-PGPUB; USPAT	OR	ON	2005/12/12 17:07
S57	3	(heat adj exchanger) and (compressible with (channel or pipe or conduit))	EPO; JPO	OR	ON	2005/12/12 17:09
S58	183	(heat adj exchanger) and (compressible with (channel or pipe or conduit))	US-PGPUB; USPAT; USOCR	OR	ON	2005/12/12 17:09
S59	44	S58 and (crack\$3 or freez\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/12/12 17:09
S60	27	("2257219"   "2811850"   "3379031"   "3405534"   "3538719"   "3621671"   "3721418"   "3751935"   "3771891"   "3946529"   "4191243"   "4394817"   "4513583"   "4551985"   "4703597"   "4782889"   "4979373"   "5027613"   "5087030"   "5251689"   "5327737").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/12/12 17:16
S61	0	("61119729").PN.	US-PGPUB; USPAT	OR	OFF	2006/07/10 18:24
S62	1	("6119729").PN.	US-PGPUB; USPAT	OR	OFF	2006/07/10 18:24
S63	33	("0596062"   "0926092"   "2029630"   "2599325"   "2629402"   "3989032"   "4060072"   "4112921"   "4142513"   "4153041"   "4170222"   "4184543"   "4227512"   "4232656"   "4299200"   "4300535"   "4308856"   "4321908"   "4440154"   "4474172"   "4637375"   "4649959"   "4651781"   "5143053"   "5413091"   "5538043"   "5579828"   "Re29737").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/20 18:22
S64	7	("1380987"   "3777811"   "4248295"   "4355522"   "4664181"   "5143053").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/20 18:22
S65	11	("6119729").URPN.	USPAT	OR	ON	2006/07/20 18:25
S66	15	("0596062"   "2029630"   "2599325"   "2629402"   "3143861"   "4440154"   "5058627"   "5538043"   "6009906"   "6119729").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/20 18:30
S67	1	("6338364").URPN.	USPAT	OR	ON	2006/07/20 18:30